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... of rules, the so-called **ECA**-Rules (**Event** ... If the **condition** is satisfied, the specified
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... actions with respect to the data set over which the trigger **condition** and query ... This
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... **condition** or action objects. ... **ECA**-Systems. ... work, however, is recognized as a
complex
task[9] 5 . Thus, we aim at the realization of a comprehensive ...
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A Koschel, PC Lockemann - Data & Knowledge Engineering, 1998 - Elsevier
... Global temporal ordering of distributed **complex events**, if needed ... Processing Unit:
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... of triggering and activation relation- ships between **ECA** rules is more **complex** in an ... relations with potential **events** or with the bodies of rule **conditions**. ...
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... R2: **Event** Draft_Design_completed (design) **Condition** repair_authorised Action ... and the processes are large and **complex**. ... for workflows based on **ECA** rules [14, 15 ...
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... Based EGA-Rule Processing We realize the **ECA**-rule processing ... combination of its basic
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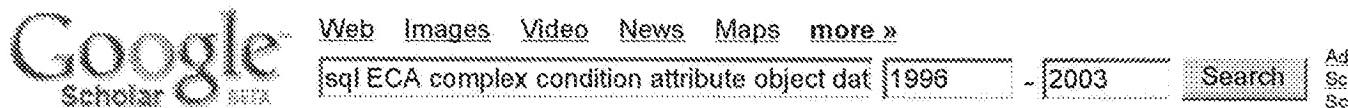
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Abstract

Many engineering applications need to response to unpredictable events in a timely manner. Active
database systems provide an event-driven rule processing capability to meet this requirement. In
this paper, we present an intelligent database which integrates an object-oriented database
(OODB) with an expert system, CLIPS. The paper describes the design and implementation of the
rule manager of this intelligent database. In the rule manager, event-condition-action (ECA) rules
are represented as first class objects of the OODB. A rule definition language (RDL) is
developed to manipulate ECA rules in a declarative way. A graphical user interface
supplies a template to interactively define, delete, update and check ECA rules. Detection of time
events, method events, absolute events and composite events is supported by the rule manager.
The CLIPS inference engine is used to control condition evaluation and action execution when an
ECA rule is triggered. Finally, a typical workflow application is used to illustrate the dynamics of
the system.

* Supporting production rules using
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Author Keywords: object-oriented database; active database; expert systems; rules

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Constraints. *ACM SIGMOD Records* **17** 1 (March 1988), pp. 51–70.

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... used in **database** de- sign, specify **conditions** on the ... and foreign key constraints, up to **complex** features, such ... diverse integrity features proposed in **SQL**:1999. ...
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... In the case of **SQL**, **ECA** rules are specied as ... and deactivation of constraints modeled by **ECA** rules. ... evaluation super- uous and revert to (**complex**) event-action ...
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... be anything from a **database** language (eg, **SQL** for Starburst ... R be the set of defined **ECA**-rules. ... Providing this information for **complex** actions and **conditions** is ...
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... In order to formulate **complex conditions** across several CDBSs, an ... When a **SQL**-operation
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... especially **complex** and ... 18: **Attribute** ... constraint **condition**..... ...
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... Que- ries can be formulated in the **SQL**-like **object**-oriented ... The definition of triggers
is more **complex**. In general, a trigger is defined in an **ECA**-style as: on ...
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... used in the **database** design, specify **conditions** on the ... the former are also used in
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- cdserv4.inria.fr
... rules, which can be expressed by **ECA** (event - con ... So this concept allows us to enforce
complex business rules ... that groups logically related PL/**SQL** types, **objects** ...
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TCT Du, PM Wolfe - Computers & Industrial Engineering, 1997 - Elsevier
... oriented **database** can be written in **SQL** mode, it is ... in another **object**, an unstructured
complex object cannot be ... were the definitions of the **attributes** of ECA. ...
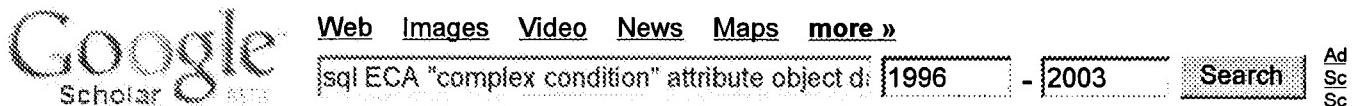Cited by 2 - Related Articles - Web Search

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... in various opaque languages, such as Java, C, and **SQL**. ... a particular item stored in the **database** may be ... may occur retrospectively based on the **attributes** of the ...
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[PDF] AN EXTENSIBLE APPROACH TO REALIZING EXTENDED TRANSACTION MODELS
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... We demonstrate how **ECA** (event-condition-action) rules, dened ... **object**-oriented **database**
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